Vimal Jose Mathew

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Software Engineer – Full Stack & AI Development

React.Js | Java | Node.js | Machine Learning | AI Development |

Experienced Software developer with over 3+ years of experience in developing and maintaining full stack cloud native applications. Skilled in microservice architecture, backend engineering, and DevOps practices, I have a strong background in front-end development (React.js), back-end engineering (Spring Boot, Node.js), and cloud platforms (AWS). Passionate about building scalable, secure, and high-performance applications using modern software development practices.

WORK EXPERIENCE

Microart Inc - *Toronto, Ontario*   January 2024 - Present
Software Developer

Developed and maintained a **Spring Boot & React.js** application to manage **1,000+ work orders** monthly, ensuring seamless order tracking and updates.

- Optimized MySQL database queries, improving **work order retrieval speed by 60%**, leading to faster decision-making and workflow efficiency.
- Enhanced **role-based access control (RBAC)** using Spring Security, securing admin and user functionalities, reducing unauthorized access incidents by **90%**.
- Integrated **Apache Kafka for real-time messaging**, handling concurrent updates from **50+ active users**, reducing data conflicts by **80%**.
- Designed an interactive **React.js dashboard** with live order status updates, improving user engagement and operational visibility by **40%**.

Danlaw Technologies - *Bengaluru, Karnataka*   November 2019- November 2021
Software Developer

Designed and developed a **full-stack microservices-based order management system** using **Spring Boot, React.js, and MySQL**, enabling **200+** restaurant operations.

- Implemented **Google OAuth2 and OTP-based login**, enhancing user authentication security and reducing login failures by **50%**.
- Optimized API Gateway routing and database queries, improving system **response time by 60%** and ensuring a **99.9% uptime** for **200+ concurrent users**.
- Dockerized the entire application, enabling **scalable deployments** and reducing infrastructure costs by **30%**.
- Built **GraphQL and RESTful APIs**, improving system performance and ensuring **seamless front-end integration**.

Toronto Treasury Board Secretariat - *Toronto, Ontario*   September 2022-May 2023
Full Stack Programmer
Built and optimized RESTful APIs using Spring Boot, enabling seamless integration between tax payment analysis tools and government services.

- Improved **database performance by 20%** through advanced **query optimization**, accelerating data retrieval for large datasets.
- Designed **efficient REST APIs** in collaboration with cross-functional teams, ensuring smooth communication between microservices.
- Enhanced database queries, reducing **latency by 30%** and enabling faster retrieval of critical financial data for internal tools.
- Conducted **systematic debugging and maintenance**, reducing application downtime by **40%** and improving system stability.

PROJECTS

Bicycle Theft Detection using Machine Learning
Developed and deployed a predictive model to detect bicycle theft patterns using various machine learning algorithms, including Random Forest, SVM and other ML algorithms.

- Collected and preprocessed real-world crime datasets to train models for theft prediction, achieving an accuracy improvement of **85%** over baseline methods.
- Implemented feature engineering techniques to enhance model performance and leveraged hyperparameter tuning to optimize results.
- Deployed the solution using AWS Lambda and S3 for scalable data processing.

EDUCATION

Centennial College - *Scarborough, Ontario*
Advanced Diploma in Software Engineering Technology, January 2022- December 2023
Christ University- *Bengaluru, India*
Bachelor Of Technology – Electronics & Communication, June 2014 – May 2018

PROFESSIONAL SKILLS

- **Programming Languages:** Java (Java 17+), JavaScript, Python
- **Frameworks:** ReactJS, Redux, Node.js, Express, Spring Boot,
- **Core Web Technologies:** HTTP, REST, JSON
- **Databases:** MySQL, AWS RDS, AWS DynamoDB, MongoDB
- **Messaging/Event Technologies:** Apache Kafka
- **Development Tools:** Postman, Swagger, Git, GitHub, Jenkins, Jira
- **Cloud Technologies:** AWS Lambda, AWS RDS, AWS EC2, AWS ECS
- **DevOps & CI/CD:** Docker, Jenkins
- **Version Control Systems:** Git, GitHub